

1646

RAW SEQUENCE LISTING ERROR REPORT

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Application Serial Number:	09/132,436C
Source:	1646
Date Processed by STIC:	6/10/2002

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PATENTIN 2.1 e-mail help: patin21help@uspto.gov or phone 703-306-4119 (R. Wax)

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Applicants submitting genetic sequence information electronically on diskette or CD-Rom should be aware that there is a possibility that the disk/CD-Rom may have been affected by treatment given to all incoming mail.

Please consider using alternate methods of submission for the disk/CD-Rom or replacement disk/CD-Rom.

Any reply including a sequence listing in electronic form should NOT be sent to the 20231 zip code address for the United States Patent and Trademark Office, and instead should be sent via the following to the indicated addresses:

- VI EFS Bio (http://www.uspto.gov/ebc/efs/downloads/documents.htm, EFS Submission User Manual ePAVE)
- 2. U.S. Postal Service: U.S. Patent and Trademark Office, Box Sequence, P.O. Box 2327, Arlington, VA 22202 3. Hand Carry directly to:
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Revised 01/29/2002



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JUL 0 8 2002

TECH CENTER 1600/2900



1646

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/732,436C

DATE: 06/10/2002

11112N1 11112101110N1 00, 03, 702, 130

TIME: 16:25:37

. Input Set : A:\Cura-611.app

Output Set: N:\CRF3\06102002\I732436C.raw

pr 6-11

Carrected Diskette Needed

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3 <110> APPLICANT: Prayaga, Sudhirdas
4 Shimkets, Richard
```

6 <120> TITLE OF INVENTION: NOVEL INTERFERON OMEGA AND NUCLEIC ACIDS ENCODING SAME

8 <130> FILE REFERENCE: 15966-615

10 <140> CURRENT APPLICATION NUMBER: 09/732,436C

11 <141> CURRENT FILING DATE: 2000-12-07

13 <150> PRIOR APPLICATION NUMBER: 60/169,887

14 <151> PRIOR FILING DATE: 1999-12-09

16 <150> PRIOR APPLICATION NUMBER: 60/170,230

17 <151> PRIOR FILING DATE: 1999-12-10

19 <160> NUMBER OF SEQ ID NOS: 22

21 <170> SOFTWARE: PatentIn Ver. 2.1

23 <210> SEQ ID NO: 1

24 <211> LENGTH: 475

25 <212> TYPE: PRT

26 <213> ORGANISM: Artificial Sequence

28 <220> FEATURE:

29 <223> OTHER INFORMATION: Description of Artificial Sequence: Curagen clone

30 AC015663_A

32 <400> SEQUENCE: 1

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5 10

36 Cys Thr Gly Gly Thr Gly Gly Cys Ala Thr Thr Gly Gly Thr Gly Ala
37 20 25 30

39 Thr Gly Ala Thr Cys Thr Cys Cys Thr Gly Cys Cys Ala Cys Ala Thr

40 35 40 . 45

42 Cys Thr Ala Thr Thr Cys Cys Cys Thr Thr Thr Thr Cys Thr Gly Cys

55 60.

45 Gly Ala Cys Cys Thr Gly Cys Cys Thr Ala Ala Ala Gly Cys Thr Cys 46 65 70 75 80

48 Ala Gly Gly Thr Gly Ala Thr Thr Cys Thr Gly Cys Cys Cys Thr

85 90 95

51 Cys Cys Ala Thr Ala Ala Gly Ala Thr Gly Cys Ala Cys Cys Ala Gly

52 100 105 110 54 Cys Ala Gly Ala Thr Cys Thr Thr Cys Ala Gly Cys Cys Thr Cys Thr

5 115 120 125

57 Thr Thr Thr Ala Cys Ala Cys Ala Ala Gly Gly Cys Thr Thr

58 130 135 140 60 Gly Thr Cys Thr Gly Ala Thr Gly Cys Thr Thr Gly Gly Ala Ala Thr

1 145 150 155 165 16

63 Ala Gly Gly Cys Cys Thr Thr Cys Cys Thr Gly Gly Ala Cys Ala

64 165 170 175

66 Ala Ala Cys Thr Cys Cys Ala Gly Ala Cys Thr Gly Gly Ala Thr Thr

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/732,436C

DATE: 06/10/2002 TIME: 16:25:37

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Output Set: N:\CRF3\06102002\1732436C.raw

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72 Gly Ala Cys Cys Thr Gly Gly Ala Gly Ala Cys Cys Thr Gly Cys Thr
                           215
75 Thr Thr Gly Gly Thr Ala Thr Ala Gly Ala Gly Gly Ala Thr Gly Gly
                    230
                                           235 .
78 Gly Ala Ala Gly Cys Ala Ala Gly Ala Gly Thr Cys Thr Gly Cys Cys
                   245
                                       250
81 Cys Thr Gly Gly Ala Ala Ala Thr Thr Gly Ala Gly Gly Cys Cys
               260
                                   265
84 Cys Thr Ala Cys Ala Cys Thr Gly Gly Cys Cys Ala Thr Ala Ala Ala
           275
                               280
87 Gly Ala Gly Gly Thr Ala Cys Thr Thr Cys Cys Ala Gly Gly Gly Ala
       290
                           295
                                               300
90 Gly Thr Ala Cys Ala Thr Thr Thr Cys Thr Thr Cys Thr Thr Gly Ala
                       310
                                           315
93 Ala Ala Gly Ala Gly Ala Gly Gly Ala Ala Ala Thr Thr Cys Ala Gly
                                       330
96 Gly Ala Ala Cys Thr Gly Thr Ala Cys Cys Thr Gly Gly Ala Gly
               340.
                                   345
99 Gly Thr Thr Gly Thr Cys Gly Thr Ala Ala Thr Gly Gly Thr Ala Ala
                                360
102 Ala Gly Gly Gly Ala Thr Thr Thr Thr Cys Thr Thr Ala Ala Gly
        370
                            375
105 Cys Ala Cys Ala Ala Ala Ala Cys Thr Thr Cys Ala Ala Gly Ala Ala
                        390
                                            395
108 Ala Ala Ala Gly Ala Gly Ala Ala Cys Ala Gly Ala Ala Gly Ala Ala
                    405
                                        410
111 Ala Ala Gly Ala Gly Ala Ala Cys Thr Gly Cys Ala Ala Ala Ala Ala
                420
                                    425
114 Ala Ala Ala Thr Cys Thr Gly Gly Ala Ala Ala Gly Gly Thr Ala
            435
                                440
117 Ala Thr Cys Thr Ala Thr Thr Ala Gly Cys Ala Gly Ala Ala Gly
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                            455
120 Ala Gly Thr Gly Ala Ala Gly Cys Thr Gly
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125 <211> LENGTH: 610
126 <212> TYPE: PRT
127 <213> ORGANISM: Artificial Sequence
129 <220> FEATURE:
130 <223> OTHER INFORMATION: Description of Artificial Sequence: Curagen clone
132 <400> SEQUENCE: 2
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136 Cys Thr Gly Gly Thr Gly Gly Cys Ala Thr Thr Gly Gly Thr Gly Ala
139 Thr Gly Ala Thr Cys Thr Cys Cys Thr Gly Cys Cys Ala Cys Ala Thr
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RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/732,436C

DATE: 06/10/2002 TIME: 16:25:37

Input Set : A:\Cura-611.app

Output Set: N:\CRF3\06102002\1732436C.raw

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143 50 50 55 55 55 56 55 56 55 56 56 58 <t< td=""></t<>
146 65 570 570 58
146 65 570 570 58
149
151 Asn A
152
154 Asn A
155
157 Asn A
158 130 135 140 160 Asn
160 Asn A
161 145 5 150 155 160 163 Asn
163 Asn A
164 165 170 175 166 Asn
166 Asn
167 180 185 190
169 Asn
170 195 200 205
172 Ala Ala Gly Cys Thr Cys Ala Gly Gly Thr Gly Ala Thr Thr
173 210 215 220
175 Cys Thr Gly Cys Cys Cys Thr Cys Cys Ala Thr Ala Ala Gly Ala Thr
176 225 230 235 240
178 Gly Cys Ala Cys Cys Ala Gly Cys Ala Gly Ala Thr Cys Thr Thr Cys 179 245 250 255
181 Ala Gly Cys Cys Thr Cys Thr Thr Thr Thr Ala Cys Ala Cys Ala
182 260 265 270
184 Ala Gly Gly Cys Thr Thr Gly Thr Cys Thr Gly Ala Thr Gly Cys
185 275 280 285
187 Thr Thr Gly Gly Ala Ala Thr Ala Gly Gly Cys Cys Thr Thr Cys
188 290 295 300
190 Cys Thr Gly Gly Ala Cys Ala Ala Ala Cys Thr Cys Cys Ala Gly Ala
191 305 310 315 320
193 Cys Thr Gly Gly Ala Thr Thr Cys Ala Thr Cys Ala Gly Cys Ala
194 325 330 335
196 Gly Cys Thr Gly Gly Ala Ala Gly Ala Cys Cys Thr Gly Gly Ala Gly
197 340 345 . 350
199 Ala Cys Cys Thr Gly Cys Thr Thr Thr Gly Gly Thr Ala Thr Ala Gly
200 355 360 365
202 Ala Gly Gly Ala Thr Gly Gly Gly Ala Ala Gly Cys Ala Ala Gly Ala
203 370 375 380
205 Gly Thr Cys Thr Gly Cys Cys Cys Thr Gly Gly Ala Ala Ala Thr Thr
206 385 390 395 400
208 Gly Ala Gly Gly Cys Cys Cys Thr Ala Cys Ala Cys Thr Gly Gly
209 405 410 415
211 Cys Cys Ala Thr Ala Ala Ala Gly Ala Gly Gly Thr Ala Cys Thr Thr
212 420 425 430

RAW SEQUENCE LISTING DATE: 06/10/2002 PATENT APPLICATION: US/09/732,436C TIME: 16:25:37

Input Set : A:\Cura-611.app

Output Set: N:\CRF3\06102002\1732436C.raw

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217 Thr Thr Cys Thr Thr Gly Ala Ala Ala Gly Ala Gly Ala Gly Gly Ala
218
220 Ala Ala Thr Thr Cys Ala Gly Gly Ala Ala Cys Thr Gly Thr Ala Cys
221 465
                       470
                                           475
223 Cys Thr Gly Gly Gly Ala Gly Gly Thr Thr Gly Thr Cys Gly Thr Ala
                   485
                                       490
226 Ala Thr Gly Gly Thr Ala Ala Gly Gly Gly Ala Thr Thr Thr Thr
227
               500
                                   505
229 Thr Cys Thr Thr Ala Ala Gly Cys Ala Cys Ala Ala Ala Cys Thr
230
            515
                               520
232 Thr Cys Ala Ala Gly Ala Ala Ala Ala Gly Ala Gly Ala Cys
                           535
235 Ala Gly Ala Ala Gly Ala Ala Ala Gly Ala Gly Ala Ala Cys Thr
                       550
                                           555
238 Gly Cys Ala Ala Ala Ala Ala Ala Ala Thr Cys Thr Gly Gly Ala
241 Ala Ala Ala Gly Gly Thr Ala Ala Thr Cys Thr Ala Thr Thr Ala
242
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244 Gly Cys Ala Gly Ala Ala Gly Ala Gly Thr Gly Ala Ala Ala Gly Cys
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247 Thr Gly
       610
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252 <211> LENGTH: 1887
253 <212> TYPE: DNA
254 <213> ORGANISM: Artificial Sequence
256 <220> FEATURE:
257 <223> OTHER INFORMATION: Description of Artificial Sequence: Curagen clone
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260 <400> SEQUENCE: 3
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262 cagteageea cacceageee atgteeeege egetgeeget geeagacaca gtegetgeee 120
263 ctaagcgtgc tgtgcccagg ggcaggcctc ctgttcgtgc caccctcgct ggaccgccgg 180
264 gcaqccqage tqcgqctqqc aqacaacttc atcqcctccq tqcqccqccq cqacctqqcc 240
265 aacatgacag gcctgctgca tctgagcctg tcgcggaaca ccatccgcca cgtggctgcc 300
266 ggcgccttcg ccgacctgcg ggccctgcgt gccctgcacc tggatggcaa ccggctgacc 360
267 teactgggeg agggeeaget gegeggeetg gteaacttge geeaceteat eeteageaac 420
268 aaccagctgg cagcgctggc ggccggcgcc ctggatgatt gtgccgagac actggaggac 480
269 ctcgacctct cctacaacaa cctcgagcag ctgccctggg aggccctggg ccgcctgggc 540
270 aacgtcaaca cgttgggcct cgaccacaac ctgctggctt ctgtgcccgc cggcgctttt 600
271 tecegeetge acaagetgge eeggetggae atgaceteea acegeetgae cacaateeca 660
272 occgacceae tetteteceg cetgeceetg etegecagge eceggggete geeegeetet 720
274 cgtcgcctgg cgcgggagga cgacctcgag gcctgcgcgt ccccacctgc tctgggcggc 840
275 cgctacttct gggcggtggg cgaggaggag tttgtctgcg agccgcccgt ggtgactcac 900
276 cgctcaccac ctctggctgt gcccgcaggt cggccggctg ccctgcgctg ccgggcagtg 960
277 ggggacccag agccccgtgt gcgttgggtg tcaccccagg gccggctgct aggcaactca 1020
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RAW SEQUENCE LISTING DATE: 06/10/2002 PATENT APPLICATION: US/09/732,436C TIME: 16:25:37

Input Set : A:\Cura-611.app

Output Set: N:\CRF3\06102002\I732436C.raw

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279 ggtggcatct tcacctgcat tgcggccaat gcagctggcg aggccacagc tgctgtggag 1140
280 ctgactgtgg gtcccccacc acctcctcag ctagccaaca gcaccagctg tgaccccccq 1200
281 egggaegggg atcetgatge teteacecea eceteegetg cetetgette tgccaaggtg 1260
282 gccgacactg ggccccctac cgaccgtggc gtccaggtga ctgagcacgg ggccacagct 1320
283 getettgtee agtggeegga teageggeet atceegggea teegeatgta eeagateeag 1380
284 tacaacaget eggetgatga catectegte tacaggatga teceggegga gageegeteg 1440
285 ttcctgctga cggacctggc gtcaggccgg acctacgatc tgtgcgtgct cgccgtgtat 1500
286 gaggacageg ccaegggget caeggecaeg eggeetgtgg getgegeeeg ettetecaee 1560
287 gaacctgcgc tgcggccatg cggggcgccg cacgctccct tcctgggcgg cacgatgatc 1620
288 ategegetgg geggegteat egtageeteg gtactggtet teatettegt getgetaatg 1680
289 cgctacaagg tgcacggcgg ccagcccccc ggcaaggcca agattcccgc gcctgttagc 1740
290 agegtttget eccagaceaa eggegeeetg ggeeeeaege eeaegeeege eecgeeegee 1800
291 ccggagcccg cggcgctcag ggcccacacc gtggtccagc tggactgcga gccctqqqqq 1860
292 cccggccacg aacctgtggg accctag
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296 <211> LENGTH: 365
297 <212> TYPE: PRT
298 <213> ORGANISM: Equus caballus
300 <400> SEQUENCE: 4
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307 Gly Ala Gly Ala Thr Gly Cys Thr Cys Cys Ala Gly Cys Ala Gly Ala
308
                                 40
310 Thr Cys Thr Thr Cys Ala Gly Cys Cys Thr Cys Thr Thr Cys Cys Ala
311
313 Cys Ala Cys Ala Gly Ala Gly Cys Gly Cys Thr Cys Gly Thr Cys Thr
                         70
316 Gly Cys Thr Gly Cys Cys Thr Gly Gly Ala Ala Cys Ala Cys Gly Ala
317 ·
319 Cys Cys Cys Thr Cys Cys Thr Gly Gly Ala Cys Gly Ala Ala Cys Thr
320
                                    105
322 Cys Thr Gly Cys Ala Cys Gly Gly Gly Ala Cys Thr Cys Cys Thr Thr
323
            115
                                120
325 Cys Gly Gly Cys Ala Gly Cys Thr Gly Gly Ala Ala Gly Ala Cys Cys
                            135
328 Thr Gly Gly Ala Cys Ala Cys Cys Thr Gly Thr Thr Thr Gly Gly Ala
329 145
                        150
                                            155
331 Gly Cys Ala Gly Gly Ala Gly Ala Thr Gly Gly Gly Ala Gly Ala Gly
332
                    165
                                        170
334 Gly Ala Ala Gly Ala Ala Thr Cys Thr Gly Cys Cys Cys Thr Gly Gly
335
                180
                                    185
337 Gly Ala Ala Cys Thr Gly Thr Gly Cys Gly Cys Cys Cys Thr Ala Cys
338
                                200
340 Ala Cys Thr Gly Gly Cys Cys Gly Thr Gly Ala Ala Gly Ala Gly Gly
343 Thr Ala Cys Thr Thr Cys Cys Gly Gly Gly Gly Ala Thr Cys Cys
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RAW SEQUENCE LISTING ERROR SUMMARY PATENT APPLICATION: US/09/732,436C DATE: 06/10/2002 TIME: 16:25:38

Input Set : A:\Cura-611.app

Output Set: N:\CRF3\06102002\1732436C.raw

Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:8; N Pos. 12,24,41,47

Use of <220> Feature(NEW RULES):

Sequence(s)_are missing the <220> Feature and associated headings. Use of <220> to <223> is MANDATORY if <213> ORGANISM is "Artificial Sequence" or"Unknown". Please explain source of genetic material in <220> to <223> section (See "Federal Register," 6/01/98, Vol. 63, No. 104,pp.29631-32)

(Sec.1.823 of new Rules)

this is an enon-needs correction

Sel P.7 _____

<210> SEQ ID NO 11

<211> LENGTH: 112

<212> TYPE: PRT/

<213> ORGANISM Unknown (220) FEATURE:

<223> OTHER INFORMATION: :

<400> SEQUENCE: 11

Leu Gln Lys Ala His Val Met Ser Val Leu His Glu Met Leu Gln Gln